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    Robert Tansley , Mick Bass , David Stuve , Margret Branschofsky , Daniel Chudnov , Greg
    McClellan , MacKenzie Smith
    Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003
    In this paper we describe DSpace™, an open source system that acts as a repository for
    digital research and educational material produced by an organization or institution. DSpace
    was developed during two years' collaboration between the Hewlett-Packard Company and
    MIT Libraries. The development team worked closely with MIT Libraries staff and early
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2   XSLT for tailored access to a digtal video library   99%
    Michael G. Christel , Bryan Maher , Andrew Begun
    Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries January 2001
    Surrogates, summaries, and visualizations have been developed and eval uated for accessing a
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    interfaces, formerly implemented within a monolithic stand-alone application, are being
    migrated to XML and XSLT for delivery through web browsers. The merits of these interfaces
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    Volume 23 Issue 3

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    Yuan Chen , Jan Edler , Andrew Goldberg , Allan Gottlieb , Sumeet Sobti , Peter Yianilos
    Proceedings of the fourth ACM conference on Digital libraries August 1999

5 A streamlined system for building online presentation archives using SMIL   95%
Darren James , Jane Hunter
Proceedings of the Australasian conference on Computing education December 2000

The demand for and expectation of ubiquitous access to multimedia online learning resources
are much higher amongst computer science students than in other fields of study. Previous
systems providing internet access to digital video or audio recordings of lectures have been
disappointing or ineffective as a learning experience or excessively complex and
time-consuming from the educator's point of view. This paper describes a new approach to
building an online presentation archive of lectures, ...

6 A relational information resource dictionary system   95%
Daniel R Dolk , Robert A. Kirsch
Communications of the ACM January 1987
Volume 30 Issue 1
A relational implementation of IRDS using SQL demonstrates how the flexibility of the
relational environment enhances the extensibility of the IRDS while at the same time
providing more powerful dictionary capabilities than are typically found in relational systems.

7 Mariposa: a wide-area distributed database system   94%
Michael Stonebraker , Paul M. Aoki , Witold Litwin , Avi Pfeffer , Adam Sah , Jeff Sidell ,
Carl Staelin , Andrew Yu
The VLDB Journal — The International Journal on Very Large Data Bases
January 1996
Volume 5 Issue 1
The requirements of wide-area distributed database systems differ dramatically from those of
local-area network systems. In a wide-area network (WAN) configuration, individual sites
usually report to different system administrators, have different access and charging
algorithms, install site-specific data type extensions, and have different constraints on
servicing remote requests. Typical of the last point are production transaction environments,
which are fully engaged during normal business h ...

8 VARIATIONS: a digital music library system at Indiana University   92%
Jon W. Dunn , Constance A. Mayer
Proceedings of the fourth ACM conference on Digital libraries August 1999

9 EROS: a fast capability system   89%
Jonathan S. Shapiro , Jonathan M. Smith , David J. Farber
**ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM
symposium on Operating systems principles** December 1999
Volume 33 Issue 5
EROS is a capability-based operating system for commodity processors which uses a single
level storage model. The single level store's persistence is transparent to applications. The
performance consequences of support for transparent persistence and capability-based
architectures are generally believed to be negative. Surprisingly, the basic operations of EROS
(such as IPC) are generally comparable in cost to similar operations in conventional systems.
This is demonstrated with a set of microbe ...

10 LegionFS: a secure and scalable file system supporting cross-domain high-performance   88%
applications
Brian S. White , Michael Walker , Marty Humphrey , Andrew S. Grimshaw
Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)
November 2001
Realizing that current file systems can not cope with the diverse requirements of wide-area

collaborations, researchers have developed data access facilities to meet their needs. Recent work has focused on comprehensive data access architectures. In order to fulfill the evolving requirements in this environment, we suggest a more fully-integrated architecture built upon the fundamental tenets of naming, security, scalability, extensibility, and adaptability. These form the underpinning of the Le ...

11 Fast detection of communication patterns in distributed executions   88%
Thomas Kunz , Michiel F. H. Seuren
Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997
Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

12 Presto: an experimental architecture for fluid interactive document spaces   85%
Paul Dourish , W. Keith Edwards , Anthony LaMarca , Michael Salisbury
ACM Transactions on Computer-Human Interaction (TOCHI) June 1999
Volume 6 Issue 2
Traditional document systems use hierarchical filing structures as the basis for organizing, storing and retrieving documents. However, this structure is very limited in comparison with the rich and varied forms of document interaction and category management in everyday document use. Presto is a prototype document management system providing rich interaction with documents through meaningful, user-level document attributes, such as “Word file,” “published paper,” &l ...

13 A visual approach to multimedia querying and presentation   82%
Isabel F. Cruz , Wendy T. Lucas
Proceedings of the fifth ACM international conference on Multimedia November 1997

14 Massive arrays of idle disks for storage archives   80%
Dennis Colarelli , Dirk Grunwald
Proceedings of the 2002 ACM/IEEE conference on Supercomputing November 2002
The declining costs of commodity disk drives is rapidly changing the economics of deploying large amounts of online or near-line storage. Conventional mass storage systems use either high performance RAID clusters, automated tape libraries or a combination of tape and disk. In this paper, we analyze an alternative design using *massive arrays of idle disks*, or MAID. We argue that this storage organization provides storage densities matching or exceeding those of tape libraries with perform ...

15 Digital rights management and fair use by design: Fair use, DRM, and trusted computing   80%
John S. Erickson
Communications of the ACM April 2003
Volume 46 Issue 4
How can DRM architectures protect historical copyright limitations like fair use while ensuring the security and property interests of copyright owners?

16 Optimization techniques for queries with expensive methods   80%
Joseph M. Hellerstein
ACM Transactions on Database Systems (TODS) June 1998
Volume 23 Issue 2
Object-relational database management systems allow knowledgeable users to define new data

types as well as new methods (operators) for the types. This flexibility produces an attendant complexity, which must be handled in new ways for an object-relational database management system to be efficient. In this article we study techniques for optimizing queries that contain time-consuming methods. The focus of traditional query optimizers has been on the choice of join methods and orders; selec ...

17 Virtual machine monitors: Xen and the art of virtualization   77%
Paul Barham , Boris Dragovic , Keir Fraser , Steven Hand , Tim Harris , Alex Ho , Rolf Neugebauer
Proceedings of the nineteenth ACM symposium on Operating systems principles October 2003
Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service.This paper presents Xen, an x86 virtual machine monit ...

18 Safely executing untrusted code: Upgrading transport protocols using untrusted mobile code   77%
Parveen Patel , Andrew Whitaker , David Wetherall , Jay Lepreau , Tim Stack
Proceedings of the nineteenth ACM symposium on Operating systems principles October 2003
In this paper, we present STP, a system in which communicating end hosts use untrusted mobile code to remotely upgrade each other with the transport protocols that they use to communicate. New transport protocols are written in a type-safe version of C, distributed out-of-band, and run in-kernel. Communicating peers select a transport protocol to use as part of a TCP-like connection setup handshake that is backwards-compatible with TCP and incurs minimum connection setup latency. New transports ...

19 SmartPointers: personalized scientific data portals in your hand   77%
Matthew Wolf , Zhongtang Cai , Weiyun Huang , Karsten Schwan
Proceedings of the 2002 ACM/IEEE conference on Supercomputing November 2002
The SmartPointer system provides a paradigm for utilizing multiple light-weight client endpoints in a real-time scientific visualization infrastructure. Together, the client and server infrastructure form a new type of data portal for scientific computing. The clients can be used to personalize data for the needs of the individual scientist. This personalization of a shared dataset is designed to allow multiple scientists, each with their laptops or iPaqs to explore the dataset from different an ...

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John Kubiatowicz , David Bindel , Yan Chen , Steven Czerwinski , Patrick Eaton , Dennis Geels , Ramakrishna Gummadi , Sean Rhea , Hakim Weatherspoon , Chris Wells , Ben Zhao
Proceedings of the ninth international conference on Architectural support for programming languages and operating systems November 2000
Volume 28 , 34 Issue 5 , 5
OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

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Wells , Ben Zhao
ACM SIGPLAN Notices November 2000
Volume 35 Issue 11
OceanStore is a utility infrastructure designed to span the globe and provide continuous access
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Jin Jing , Abdelsalam Sumi Helal , Ahmed Elmagarmid
ACM Computing Surveys (CSUR) June 1999
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engendered a new paradigm of computing, called mobile computing, in which users carrying
portable devices have access to data and information services regardless of their physical
location or movement behavior. In the meantime, research addressing information access in
mobile environments has proliferated. In this survey, we provide a concrete framework and
categorization of the various way ...

23 Self-similarity in file systems   77%
Steven D. Gribble , Gurmeet Singh Manku , Drew Roselli , Eric A. Brewer , Timothy J. Gibson
, Ethan L. Miller
**ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1998 ACM
SIGMETRICS joint international conference on Measurement and modeling of computer
systems** June 1998
Volume 26 Issue 1

We demonstrate that high-level file system events exhibit self-similar behaviour, but only for short-term time scales of approximately under a day. We do so through the analysis of four sets of traces that span time scales of milliseconds through months, and that differ in the trace collection method, the filesystems being traced, and the chronological times of the tracing. Two sets of detailed, short-term file system trace data are analyzed; both are shown to have self-similar like behaviour, w ...

24 StratOSphere: mobile processing of distributed objects in Java   77%
Daniel Wu , Divyakant Agrawal , Amr El Abbadi
Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking October 1998

25 The HP AutoRAID hierarchical storage system   77%
J. Wilkes , R. Golding , C. Staelin , T. Sullivan
ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles December 1995
Volume 29 Issue 5

26 Incremental database systems: databases from the ground up   77%
Stanley B. Zdonik
ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data June 1993
Volume 22 Issue 2
This paper discusses a new approach to database management systems that is better suited to a wide class of new applications such as scientific, hypermedia, and financial applications. These applications are characterized by their need to store large amounts of raw, unstructured data. Our premise is that, in these situations, database systems need a way to store data without imposing a schema, and a way to provide a schema incrementally as we process the data. This requires that the ...

27 The Mariposa distributed database management system   77%
Jeff Sidell
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[Abstract]   [PDF Full-Text (592 KB)] **IEEE CNF**

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4 **Traffic management for an ATM switch with per-VC queuing: concept and implementation**
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Communications Magazine, IEEE , Volume: 36 Issue: 1 , Jan. 1998

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